

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: IRiS

Report Number: P1305864

Luminaire Tested: P3SQAS13R159024DE010 E3SQCA301MB

Issue Date: 1/29/2026

Test Information

Test Method: LM-79-2019
Report Number: P1305864
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2510-583-47)
Test Lab: INNOVATION CENTER
Issue Date: 1/29/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: IRiS
Catalog Number: P3SQAS13R159024DE010 E3SQCA301MB
Description: 3in Adjustable LED luminaire with, R15 optic, 2400K CCT AND, 90CRI , E3SQCA301MB TRIM
Light Source: -
Ballast/Driver: -

Summary

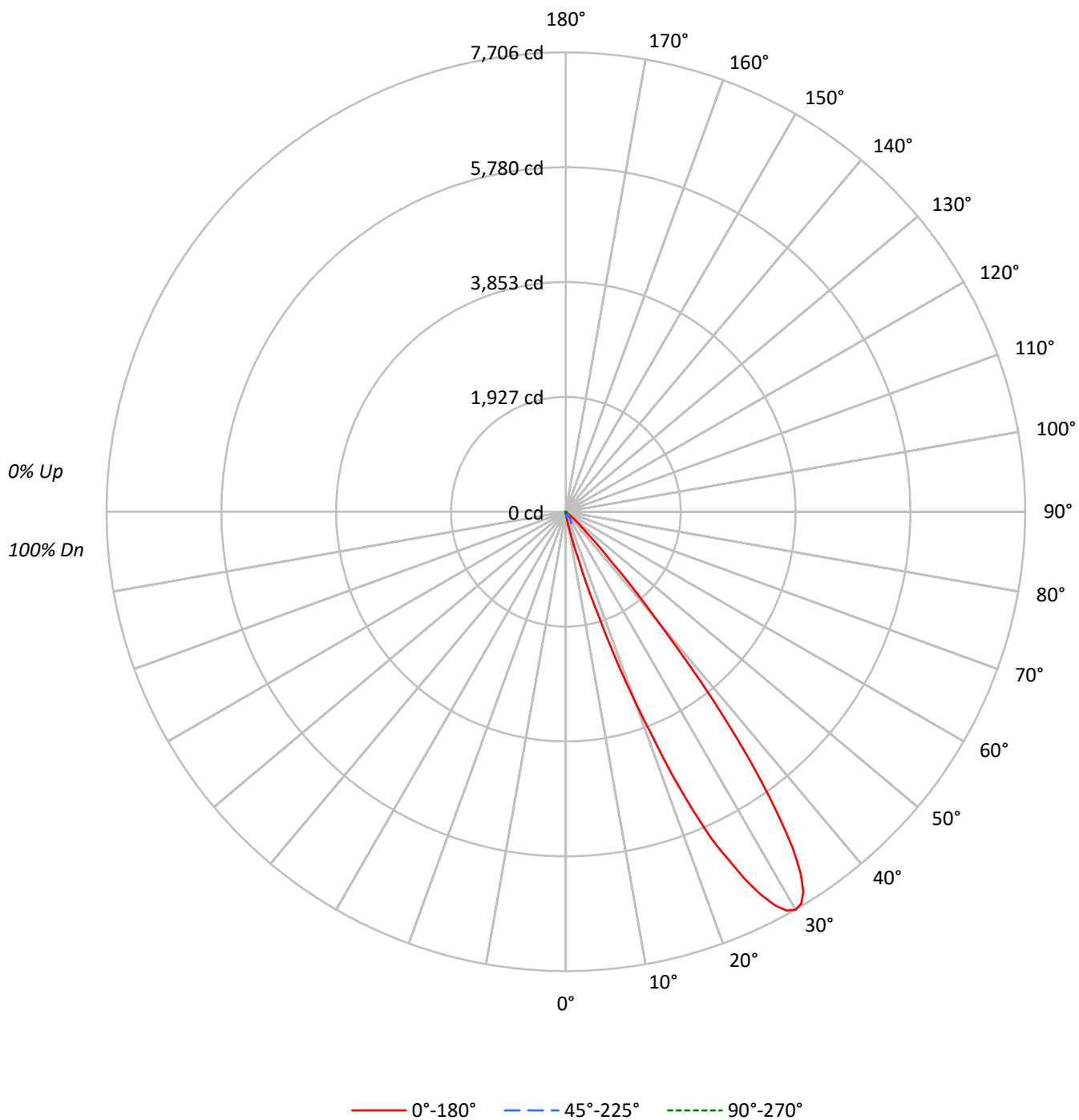
Lumens per Lamp: N/A
Luminaire Lumens: 815.0 lumens
Efficiency: N/A
Efficacy: 55.8 lumens/watt
Spacing Criteria (0/90/45): 2.33 / 0.38 / 1.17
Luminous Opening: Rectangular (W 0.25' x L: 0.25' x H: 0')
CIE Type: Direct

Input Watts (W): 14.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	113	109	107	104	110	107	105	102	103	101	99	99	98	96	96	95	94	92		
2	106	100	96	92	104	99	94	91	95	92	89	92	89	87	89	87	85	83		
3	99	92	86	81	97	90	85	81	88	83	79	85	81	78	83	80	77	75		
4	93	84	78	73	91	83	77	72	81	75	71	79	74	70	77	73	70	68		
5	87	77	70	65	85	76	70	65	74	68	64	72	67	63	71	66	63	61		
6	81	71	63	58	79	70	63	58	68	62	58	67	61	57	65	60	57	55		
7	76	65	57	52	74	64	57	52	63	56	52	61	56	52	60	55	51	50		
8	71	59	52	47	69	59	52	47	58	51	47	56	51	47	55	50	46	45		
9	66	55	47	43	65	54	47	43	53	47	42	52	46	42	51	46	42	41		
10	62	50	43	39	61	50	43	39	49	43	38	48	42	38	47	42	38	37		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	5012	5012	5012	5012	5012
5°	14522	10961	4305	1781	1193
10°	37774	16334	2851	0	0
15°	150965	26745	1533	0	0
20°	616814	39423	477	0	0
25°	1219306	39088	0	0	0
30°	1532518	30844	0	0	0
35°	1307598	18922	0	0	0
40°	538333	5980	0	0	0
45°	116470	2509	0	0	0
50°	14924	0	0	0	0
55°	1291	0	270	0	0
60°	0	0	586	0	0
65°	0	0	693	0	0
70°	0	453	1309	0	0
75°	0	599	1730	0	0
80°	0	893	2579	0	0
85°	0	1778	5138	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 2°

Vertical Angle: 45°

Luminance: 121902 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.5
10°-20°	57.1	7.0
20°-30°	332.9	40.8
30°-40°	357.0	43.8
40°-50°	60.2	7.4
50°-60°	1.8	0.2
60°-70°	0.5	0.1
70°-80°	0.8	0.1
80°-90°	0.7	0.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	393.9	48.3
0°-40°	750.9	92.1
0°-60°	813.0	99.7
0°-90°	815.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	815.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	29	29	29	29	29	
5°	84	63	25	10	7	12
15°	847	150	9	0	0	392
25°	6416	206	0	0	0	2903
35°	6219	90	0	0	0	3574
45°	478	10	0	0	0	565
55°	4	0	1	0	0	11
65°	0	0	2	0	0	0
75°	0	1	3	0	0	0
85°	0	1	3	0	0	0
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
0°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
2.5°	53.1	54.0	54.8	54.8	54.8	54.8	54.0	54.0	54.0	54.0	53.1
5°	84.0	84.0	84.0	84.0	84.0	84.0	83.1	83.1	83.1	83.1	83.1
7.5°	120.0	118.3	119.1	116.6	118.3	117.4	116.6	118.3	118.3	114.0	114.0
10°	216.0	215.1	206.5	208.3	210.0	209.1	209.1	204.0	203.1	199.7	196.3
12.5°	416.5	425.9	432.8	432.8	416.5	422.5	411.4	413.9	415.7	410.5	392.5
15°	846.7	862.2	845.9	861.3	855.3	833.0	808.2	774.7	787.6	764.5	756.7
17.5°	1854.6	1889.7	1875.2	1804.0	1827.2	1772.3	1738.0	1725.2	1689.2	1582.1	1537.5
20°	3365.5	3408.4	3368.1	3284.9	3311.5	3207.8	3181.2	3156.4	2997.0	2938.7	2751.9
21°	4001.4	4036.5	4052.0	3965.4	3912.3	3830.0	3761.4	3739.2	3642.3	3530.1	3338.1
22°	4769.3	4728.2	4635.6	4647.6	4568.8	4501.1	4405.9	4315.9	4208.0	4051.1	3892.6
23°	5405.2	5357.2	5313.5	5260.4	5175.5	5127.5	4991.3	4892.7	4752.2	4584.2	4431.6
24°	5997.4	5923.7	5896.3	5802.0	5778.0	5670.0	5559.5	5430.9	5261.2	5082.1	4913.3
25°	6416.5	6427.6	6403.6	6392.5	6269.9	6159.4	6049.7	5851.7	5706.9	5548.3	5288.6
26°	6865.6	6870.7	6858.7	6776.4	6665.9	6557.9	6416.5	6244.2	6034.3	5858.6	5623.7
27°	7209.2	7188.7	7171.5	7073.8	6983.0	6846.7	6718.2	6514.2	6309.4	6100.2	5827.7
28°	7483.5	7444.9	7423.5	7339.5	7233.2	7066.1	6908.4	6718.2	6513.3	6288.8	5994.0
29°	7648.9	7607.7	7583.7	7491.2	7368.6	7222.1	7062.7	6853.6	6633.3	6383.1	6086.5
30°	7706.3	7682.3	7644.6	7548.6	7421.8	7269.2	7105.5	6878.4	6647.9	6391.6	6078.0
31°	7668.6	7637.7	7601.7	7498.0	7360.9	7215.2	7025.0	6786.7	6544.2	6299.9	5967.4
32°	7518.6	7499.8	7456.0	7317.2	7205.8	7017.3	6829.6	6606.7	6341.9	6079.7	5778.9
33°	7237.5	7206.7	7168.9	7042.1	6899.8	6719.0	6532.2	6304.2	6041.1	5764.3	5433.5
34°	6809.0	6769.6	6722.4	6637.6	6455.9	6299.1	6083.1	5816.6	5598.9	5333.2	5034.1
35°	6219.4	6161.9	6105.4	6041.1	5837.1	5692.3	5546.6	5314.4	5104.4	4854.1	4515.6
36°	5557.8	5535.5	5489.2	5319.5	5253.5	5056.4	4939.0	4672.5	4502.8	4257.7	3978.3
37°	4809.6	4678.5	4745.3	4650.2	4451.3	4389.6	4249.9	4021.1	3837.7	3578.9	3376.6
38°	4007.4	3921.7	3968.8	3872.9	3769.2	3626.9	3520.6	3353.5	3147.8	2944.7	2752.7
39°	3176.1	3106.7	3158.1	3093.0	2935.3	2876.1	2781.9	2654.2	2488.8	2330.2	2148.5
40°	2394.5	2305.4	2373.9	2281.4	2209.4	2112.5	2064.6	1947.1	1844.3	1749.2	1633.5
42.5°	1093.6	1084.1	1068.7	1035.3	1027.6	1028.4	969.3	930.7	878.4	817.6	780.7
45°	478.2	490.2	500.5	481.6	480.8	470.5	467.1	441.4	431.1	411.4	387.4
47.5°	235.7	240.0	237.4	242.5	238.3	231.4	229.7	226.3	216.0	215.1	204.0
50°	55.7	54.8	54.8	55.7	54.8	54.8	54.0	52.3	51.4	52.3	49.7
52.5°	18.0	18.9	18.0	17.1	18.0	18.9	18.0	18.0	18.0	18.0	18.0
55°	4.3	4.3	4.3	4.3	4.3	4.3	3.4	3.4	4.3	4.3	4.3
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	0°	1°	2°	3°	4°	5°	6°	7°	8°	9°	10°
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
2.5°	52.3	44.6	36.9	29.1	21.4	17.1	16.3	15.4
5°	78.8	63.4	42.0	24.9	14.6	10.3	7.7	6.9
7.5°	106.3	78.8	46.3	20.6	10.3	4.3	1.7	0.9
10°	152.5	93.4	48.0	16.3	5.1	0.0	0.0	0.0
12.5°	299.1	107.1	47.1	12.9	0.9	0.0	0.0	0.0
15°	497.1	150.0	43.7	8.6	0.0	0.0	0.0	0.0
17.5°	814.2	193.7	37.7	6.0	0.0	0.0	0.0	0.0
20°	1262.4	215.1	29.1	2.6	0.0	0.0	0.0	0.0
21°	1480.1	216.8	25.7	1.7	0.0	0.0	0.0	0.0
22°	1668.6	216.8	22.3	0.9	0.0	0.0	0.0	0.0
23°	1843.4	214.3	19.7	0.0	0.0	0.0	0.0	0.0
24°	1987.4	210.8	18.0	0.0	0.0	0.0	0.0	0.0
25°	2095.4	205.7	16.3	0.0	0.0	0.0	0.0	0.0
26°	2145.1	198.8	13.7	0.0	0.0	0.0	0.0	0.0
27°	2170.0	189.4	12.0	0.0	0.0	0.0	0.0	0.0
28°	2152.8	179.1	10.3	0.0	0.0	0.0	0.0	0.0
29°	2110.0	168.0	7.7	0.0	0.0	0.0	0.0	0.0
30°	2054.3	155.1	6.0	0.0	0.0	0.0	0.0	0.0
31°	1972.9	142.3	4.3	0.0	0.0	0.0	0.0	0.0
32°	1861.4	129.4	3.4	0.0	0.0	0.0	0.0	0.0
33°	1712.3	115.7	1.7	0.0	0.0	0.0	0.0	0.0
34°	1528.1	102.0	0.9	0.0	0.0	0.0	0.0	0.0
35°	1321.5	90.0	0.0	0.0	0.0	0.0	0.0	0.0
36°	1144.1	77.1	0.0	0.0	0.0	0.0	0.0	0.0
37°	965.9	61.7	0.0	0.0	0.0	0.0	0.0	0.0
38°	809.0	48.8	0.0	0.0	0.0	0.0	0.0	0.0
39°	669.3	39.4	0.0	0.0	0.0	0.0	0.0	0.0
40°	554.5	26.6	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	306.8	18.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	186.0	10.3	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	108.0	3.4	0.0	0.0	0.0	0.0	0.0	0.0
50°	41.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	13.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	3.4	0.0	0.0	0.9	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.9	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.9	1.7	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.9	1.7	0.9	0.0	0.0	0.0
65°	0.0	0.0	1.7	1.7	0.9	0.0	0.0	0.0
67.5°	0.0	0.0	1.7	2.6	0.9	0.0	0.0	0.0
70°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
72.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
75°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
77.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
80°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
82.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
85°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
87.5°	0.0	0.9	1.7	2.6	0.9	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)